

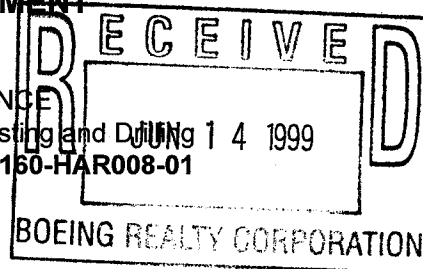
Boeing Realty Corporation  
4060 Lakewood Blvd., 6th Floor  
Long Beach, CA 90808-1700  
Telephone: (562) 627-3200  
FAX: (562) 627-3109

**WORK AUTHORIZATION  
AMENDMENT**

June 4, 1999

Authorized to:  
**HARDING LAWSON & ASSOCIATES**  
30 Corporate Park Suite 400  
Irvine CA 92606

Project: TORRANCE  
Groundwater Testing and Drilling  
Contract No.: **05160-HAR008-01**



Dear Harding Lawson:

This document constitutes your formal authorization to perform additional work for the above mentioned project in the amount **Not to Exceed \$10,914.00**. The additional work: Increase Budget for Groundwater Characterization RE: LM. Refer to your Proposal dated May 18, 1999. **Completion date: September August 30, 1999. Revised total contract amount shall not exceed \$56,553.00**, subject to our receipt of:

- Executed copy of this letter,
- Current certificate of insurance evidencing your coverage for General Liability, Automobile Liability, and Worker's Compensation per Exhibit H previously submitted. BRC must be named as Additional Insured.
- Copy of your contractor's license showing license number (if applicable).

Any revisions to this contract will be issued by a contract amendment. Any work performed without such documentation is not formally authorized. All work is to be the direction of and coordinated with Mario Stavale at (562) 627-3014 and Integrated Environmental Services at (949) 852-9050. If accepted on Original Contract, monthly payments shall be subject to 10% retention through final completion and acceptance.

The following Exhibits were previously submitted and are incorporated as part of this Work Authorization: Some or all exhibits may apply, please refer to your Original Contract Agreement

- Exhibit C: (C1 thru C7) Lien release forms and Lien Waivers & Pay Procedure – W-9 must be received prior to payment being made. *If vendor has already submitted W-9 with prior contracts and /or on file with BRC, please disregard.*
- Exhibit F: CONDITIONS FOR CONTRACTORS WHO WORK FOR BOEING REALTY CORPORATION (BRC)
- Exhibit G: BRC GENERAL CONDITIONS OF CONTRACT
- Exhibit H: INSURANCE ENDORSEMENT- *If vendor has already submitted form with prior contracts and /or on file with BRC, please disregard. Policy must be current.*
- Exhibit I: NOTICE TO OWNER PROVIDED IN ACCORDANCE WITH SECTION 7018.5 OF THE BUSINESS AND PROFESSIONS CODE

**When invoicing for this work, PLEASE REFER TO THE CONTRACT NUMBER AND PROJECT NAME NOTED ABOVE, and submit invoices to BOEING REALTY CORPORATION Attn: ACCOUNTING DEPARTMENT at 4060 Lakewood Blvd 6<sup>th</sup> Floor, Long Beach, CA 90808-1700. If Insurance Verification is required, payments are subject to a hold if not current.**

Please sign your acceptance of this contract agreement at the location provided below and deliver the original to us for our file prior to commencement of work.

Should you have any questions, please call our office at 562-627-3075.

Sincerely,  
BOEING REALTY CORPORATION

MARIO STAVALE

Approved:

BRG MANAGEMENT

cc: Joanne Ornelas- Integrated

Your Signature is acceptance in accordance with the above noted conditions:

HARDING LAWSON & ASSOCIATES

Harding Lawson Associates

05160-HAR002-01



May 18, 1999

46038

Ms. Joann Ornelas =  
Integrated Environmental Services, Inc.  
3990 Westerly Place, Suite 210  
Newport Beach, California 92660

Change Order Request No. 1  
Offsite Groundwater Characterization Services  
LMC/ILM Facility  
Boeing Realty Corporation/Lockheed Martin Corporation Joint Investigation  
Los Angeles, California

Dear Ms. Ornelas:

Harding Lawson Associates (HLA) is submitting this change order request per our meeting on May 4, 1999, for additional expenses incurred during groundwater characterization services for the installation and sampling of eight monitoring wells at the subject facility. The primary objective of the project is to characterize the lateral extent of a contaminated groundwater plume from the adjacent Lockheed Martin Corporation facility (former International Light Metals facility). HLA's scope of services for the project was presented in our proposal to Integrated Environmental Services, Inc. (IES) dated December 21, 1998. During the course of the project, additional field staffing requirements and unanticipated delays as a result of lengthy sampling protocol and work stoppages for field decisions led to a significant increase in HLA's field effort.

#### EXPLANATION OF ADDITIONAL COSTS

The bulleted items listed below are provided as justification for the cost increase of \$10,914.

- IES requested HLA to provide adequate coverage to interact with the Department of Toxic Substance Control (DTSC) during the field program for this high-profile project. HLA provided an additional geologist at the site for 3 days during the first week of fieldwork. HLA's original estimate included costs for only one geologist at the site. The original budget was \$9,807 for a one-man field crew for the duration of the project, estimated to be 9 field days. Due to the addition of a second field person we seek to recover an additional \$3,270, representing one third of the original field budget.
- HLA's original budget was based on an estimated nine days to complete the fieldwork. We expected that one mobilization would be required for the entire field effort. Twelve days and three mobilizations were actually required as a result of the re-siting of wells; group decisions regarding the analysis of soil samples; unusually lengthy protocols for equipment decontamination; and delay of groundwater sampling for the event to occur concurrently with the sampling program at an adjacent site. Additional delays occurred, as it was necessary to drill at a slow rate through several feet of fill material to identify the interface with the native soil. These conditions resulted in an

Engineering and  
Environmental Services

30 Corporate Park, Suite 400, Irvine, CA 92606

714/260-1800 Fax 714/260-1830

②

Harding Lawson Associates

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Integrated Environmental Services, Inc.

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additional \$3,235 in cost for HLA labor, representing a 33 percent increase over the nine-day budget for the fieldwork.

- HLA's original estimate for waste soil handling and soil bins was \$1,800. Due to the demands placed on the drilling crew by the aggressive schedule and rigorous field protocols, it was necessary for the drilling contractor to bring another equipment operator to the site to operate a forklift for the transfer of soil from the drilling locations to the soil bins. This resulted in an unbudgeted additional cost of \$3,335.
- HLA's original estimate was based on completion of the work in nine, 10-hour workdays. Instead, overtime of approximately 1.5 hours per drilling employee was incurred almost every day during drilling activities in an attempt to meet the aggressive project schedule. This has resulted in an additional \$1,073 of overtime charges that have been billed to HLA by the drilling subcontractor.

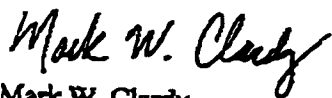
#### CLOSING

The attached table lists each of the above items along with the additional cost incurred by HLA, excluding the rental costs for the waste containers. We request that IES increase our budget for this project by \$10,914 as shown on the attached table.

Please contact Mark Clardy at (949) 260 - 1800 if you have any comments or questions regarding this letter.

Yours very truly,

HARDING LAWSON ASSOCIATES



Mark W. Clardy  
Senior Geologist  
Project Manager



Steve P. Howell  
Managing Principal

MC/SH/mc  
K:\Working\documents\mchase.doc

Attachment: Cost Breakdown

**ATTACHMENT**  
**COST BREAKDOWN**

**COST BREAKDOWN**  
**CHANGE ORDER NO. 1**  
**BRC: LMC/ILM FACILITY**

<i>Category</i>	<i>Cost</i>
Additional HLA crewmember	\$3,270
33% Field Labor Increase	\$3,236
Additional Waste Soil Handling	\$3,335
Drill Crew Overtime	\$1,073

**GRAND TOTAL    \$10,914**